

IRRIGATION INDUCED SOCIO-ECONOMIC CHANGE

A Study of Bhorletar Irrigation Project

Lamjung



A Dissertation

Submitted to Tribhuwan University, Department of sociology/ Anthropology
Prithiwi Narayan Campus in the Partial Fulfillment of the Requirement for the Master
Degree in **Anthropology**



By

Sobit Kumar Thapa

Roll No. 164/ 2006

Regd. No.11927-95

The faculty of Humanities and Social Sciences

Department of Sociology/ Anthropology

Tribhuwan University

Prithiwi Narayan Campus

Pokhara

September, 2008

LETTER OF RECOMMENDATION

This is to certify that Mr **Sobit Kumar Thapa** has completed this dissertation entitled " **Irrigation Induced Socio-Economic Change; A case study of Bhorletar Irrigation Project, Lamjung** " under my supervision and guidance. I, therefore, recommend this dissertation for the final approval and acceptance by the dissertation committee.

Hari Kumar Ojha

(Lecturer

Sociology/ Anthropology,

T.U., PNC, Pokhara)

(Research Supervisor)

Pokhara

September, 2008

LETTER OF RECOMMENDATION BY LANGUAGE EDITOR

This is to certify that I have gone through the draft of dissertation entitled "**Irrigation Induced Socio-Economic Change**; A case study of Bhorletar Irrigation Project, Lamjung" prepared by **Mr. Sobit Kumar Thapa** as a language editor and made necessary correction and improvements there in I have been impressed by his intelligible presentation of the facts through the medium of plain and correct English.

Bishwo Raj Adhikari

(Lecturer, Department of English,

T.U., PNC, Pokhara)

(Language Editor)

Pokhara

September, 2008

LETTER OF APPROVAL

We hereby certify that the dissertation entitled "**Irrigation Induced Socio-Economic Change**; A case study of Bhorletar Irrigation Project, Lamjung" submitted by Mr. **Sobit Kumar Thapa** to the Department of sociology / Anthropology, Prithwi Narayan Campus, Pokhara, Faculty of Humanities and Social sciences, Tribhuvan University, in the partial fulfillment of the requirements for the **Degree of Master's of Arts in Anthropology** has been found satisfactory in scope and quality. Therefore, we accept this dissertation as a part of the mentioned degree.

Bishwo Kallyan Parajuli, PhD.

Head of Department Sociology/Anthropology
T.U., PNC, Pokhara

Kedar Basnet, PhD.

Lecturer
Department of Geography, T.U., PNC, Pokhara
(**External Supervisor**)

Hari Kumar Ojha

Lecturer
Department Of Sociology/Anthropology, T.U., PNC, Pokhara
(**Research Supervisor**)

Pokhara
September, 2008

ACKNOWLEDGEMENT

Irrigation Induced Socio-economic Change; A case study of Bhorletar Irrigation Project, Lamjung,” is a dissertation been prepared in accordance with the rule and regulation of university in the partial fulfillment of the requirements for the Master’s Degree in Humanities in the Department of Sociology/Anthropology, T.U.,PNC, Pokhara.

It’s a great matter of great pride for me express my sincere gratitude to the research committee, department of Sociology/Anthropology, T.U. PNC, Pokhara, for providing me an opportunity to present a dissertation on this topic.

I am grateful to my supervisor Hari Kumar Ojha for his continual supervision and guidance at all stages of the study. This research work would not come out in the present shape without his guidance and counseling.

I would like to express my sincere thanks to Dr.Bishow Kallyan Parajuli, chairman of the Department of Sociology/Anthropology, Prithwi Narayan Campus, for his encouragement and support in completing this dissertation. Likewise, encouragement and support of Janardan Thapa, Amrit Kumar Bhandari and Sharad Poudel,Lecturer of Sociology/Anthropology Prithwi Narayan Campus,Pokhara is also appreciable.

I am thankful to Mr. Dharmsali Poudel, Ex-Chairman of WUMC’s,Chairman Mr.Nanda Prasad Regmi ,Facilitator Mr Indra Prasad Regmi(UMC’s Secretary) and users who participated in my field visit and group discussion.

Likewise, I am especially thankful to Mr.Rajendra Adhikari Lecture of National Higher secondary school, Pokhara for arranging my scattered data and making them reflect the reality with the help of SPSS, computer software. I

must thank him for his continued assistance and encouragement throughout the work of this dissertation.

I would like to thanks to my friends and senior students of Sociology/Anthropology department of PNC, Mr. Deb Chhettri, Mr. Shivaji Gurung ,Mr. Krishna Poudel, Mr. Santosh Gurung, Mr.Dipak Sigdel and Mr. Amar B.K.,for their encouragement and support. I am also thankful to Mr.Mahesh Paneru,staff of Socology/Anthropology department. Similarly, I would like to especially thank to Sanu Gurung, for her support and encouragement.

Finally, I would like to express my sincere gratitude to my parent Late. Father Bhupal singh Thapa, Mother Ram Maya Thapa and my family for their patience, understanding and inspiration to complete this study.

Thapa

Sobit Kumar

Table of Contents

Acknowledgment	
Letter of Recommendation	
Lit of Abbreviations	
List of Tables & figures	
Chapter-I	Page
Introduction	1-8
1.1 General Background	1
1.2 Statement of the problem	5
1.3 Objective of the study	7
1.4 Rational of the study	8
1.5 Limitation of study	8
Chapter-II	
Literature Review	9-18
2.1 Historical Development of Irrigation	9
2.2 Irrigation in Nepal	10
2.3 Two Domains of Irrigation Development in Nepal AMIS and FMIS	15
2.4 Definition of Irrigation	17
2.5 Irrigation facilities before and during the plan period	17
2.6 Conceptual framework	18
Chapter-III	
Research Methods	19-21
3.1 Selection of Study Area	19
3.2 Research Design	19
3.3 Nature and source of data	19
3.4 Sampling procedure	19
3.5 Data collection Techniques	20
3.5.1 Questionnaire schedule	20
3.5.2 Key Informant Interview	20
3.5.3 Secondary source of information	21
3.6 Reliability and Validity of the Data	21
3.7 Data processing and Analysis	21
Chapter-Iv	
General Introduction of the study area	22-32
4.1 Physical setting	22
4.2 Natural Resources	22
4.3 Development activities/ interventions	23
4.4 Socio Economic characteristics of the study area	24
4.4.1 Settelement pattern	24
4.4.2 Sampled households in the study area	24
4.4.3 Population structure of the study area	24
4.4.4 Age specific	

ABBREVIATIONS

ADBN-	Agricultural Development Bank/ Nepal
ADB-	Asian Development Bank
ADC-	Agriculture Development Committee
A.D.-	Anno Domini
APP-	Agriculture Planning Programme.
AMIS-	Agency managed Irrigation system.
APROSC-	Agriculture project Research service center.
B.C.-	Before Christ
BIP-	Bhorletar Irrigation Project.
BWUC-	Bhorletar Water User Uommittee.
DIHM-	Department of Irrigation Hydrology and Meteorology.
DIO-	District Irrigation office.
DOI-	Department of Irrigation.
FMIS-	Farmer Managed Irrigation System.
FIWUD-	Farm Irrigation and Water Utilization Division.
GDP-	Gross Development product.
HMG/N-	His Majesty Government Nepal.
ILO-	International Labor Organization
IMC-	Irrigation Management Committee
NPC-	Nepal Planning Commission
NARC-	Nepal Agricultural Re search centre.
S.L.C.-	School Leaving certificate.
SFDP-	Small Farmers Development Program.
V.D.C. –	Village Development committee.
W.B.	World Bank
WECN-	Water and Energy Commission Nepal.
WUO-	Water User's Organization.
WRA-	Water Resource Act.
WUC-	Water User's Committee
WUA-	Water user's Association.
WUMC-	Waster User's Management Committee.